Histogram Analysis

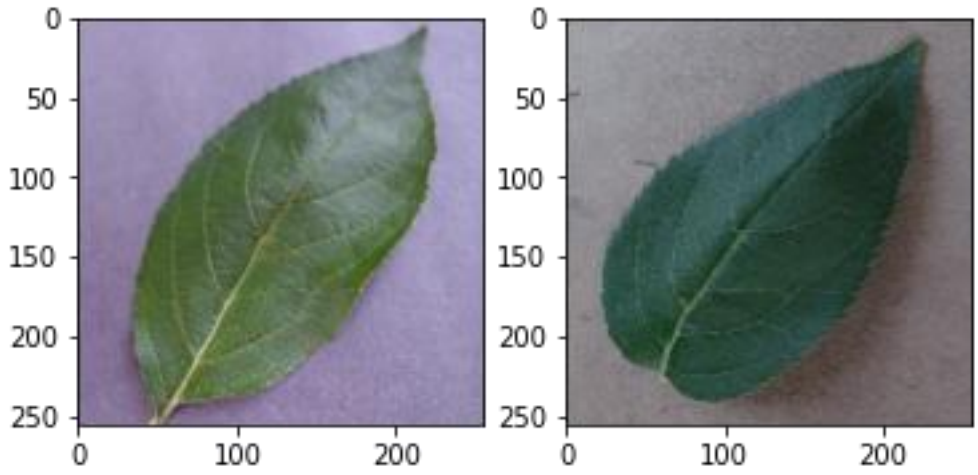
```
import matplotlib.pyplot as plt
import numpy as np
from skimage.io import imread
```

In [ ]:

```
I = imread('/content/00fca0da-2db3-481b-b98a-9b67bb7b105c___RS_HL
7708.JPG')
J=imread('/content/4eab95ce-76ec-4bd2-9cc6-f39747569750___RS_HL 5958.JPG')
```

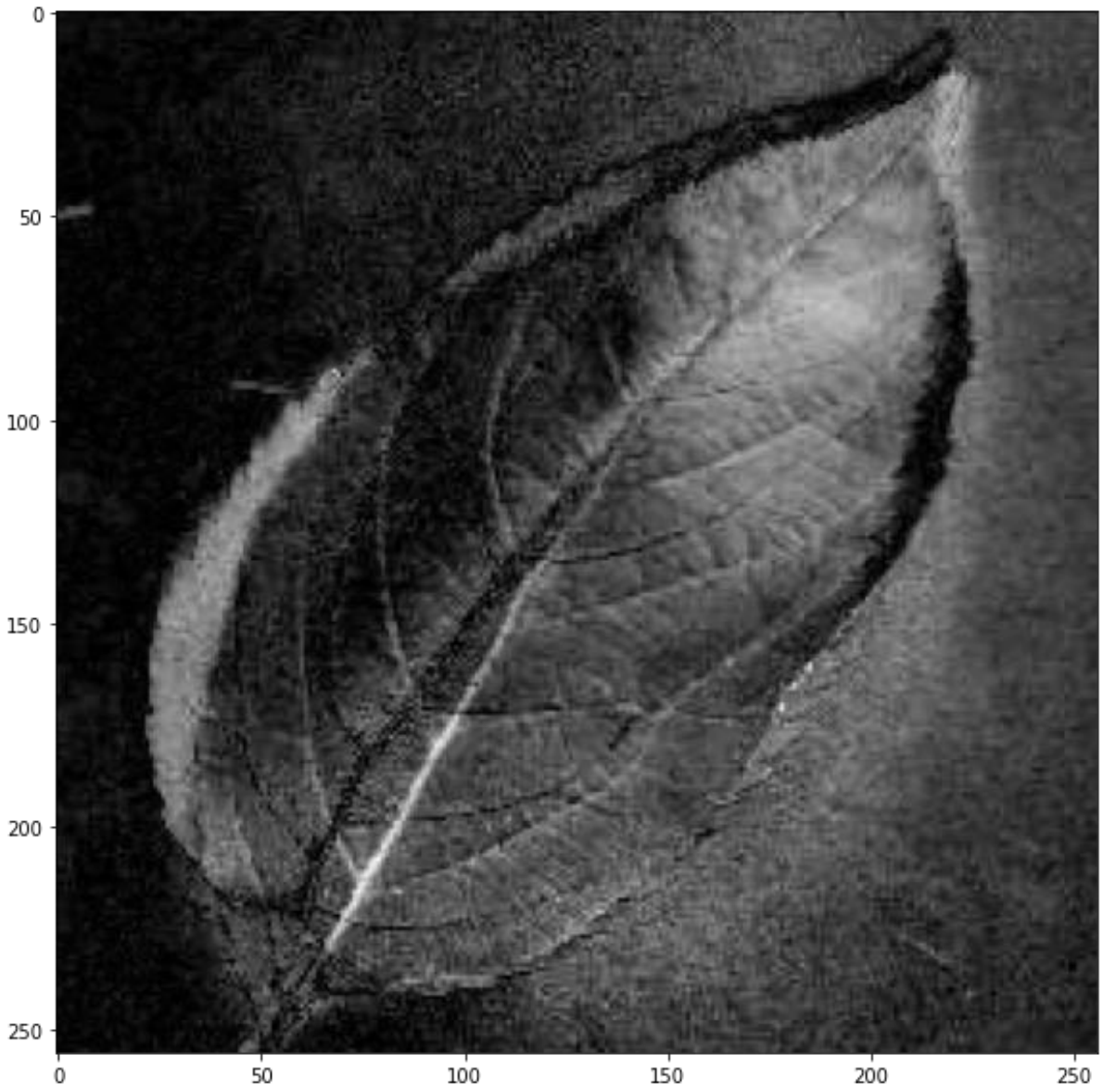
In [ ]:

```
plt.figure()
plt.subplot(121),plt.imshow(I)
plt.subplot(122),plt.imshow(J)
plt.show()
```



In [ ]:

```
plt.figure(figsize=(10,10))
plt.imshow(np.abs(I[:,:,0].astype(float)-
J[:,:,0].astype(float)),cmap='gray')
plt.show()
```



In [ ]:

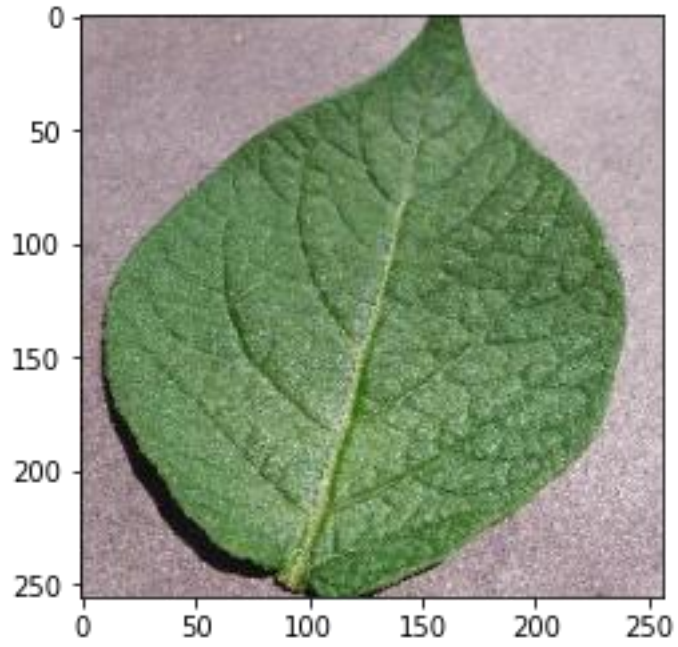
```
d=imread('/content/a8d687be-3777-403f-bae7-5c8c19340b3f___RS_HL 1738.JPG')
mask=imread('/content/b8b7b98a-eb1a-4213-9b0b-aeef4df427e8___RS_HL
1858.JPG')

print(np.amin(d),  np.amax(d))
print(np.amin(mask),  np.amax(mask))
```

```
0 255
0 255
```

In [ ]:

```
plt.figure(),plt.imshow(mask),plt.show()
```



Out[ ]:

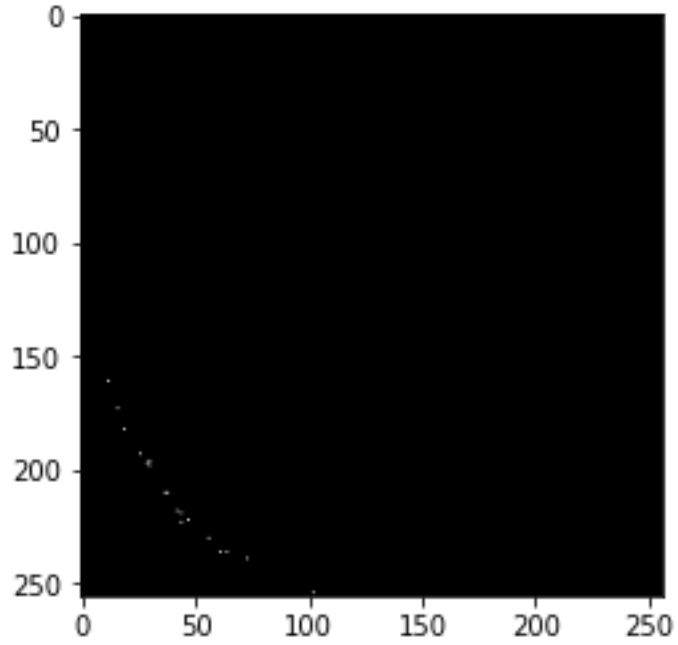
```
(,
 ,
 None)
```

In [ ]:

```
mask=mask[:,:,0]
```

In [ ]:

```
maskInv=np.zeros_like(mask)
maskInv[mask==0]=255
maskInv[mask==255]=0
plt.figure(),plt.imshow(maskInv, cmap='gray'),plt.show()
```



Out[ ]:

```
(,
 , None
```